

Abstracts

An X-Band Monolithic Active Mixer in SiGe HBT Technology

M. Case, S.A. Maas, L. Larson, D. Rensch, D. Harame and B. Meyerson. "An X-Band Monolithic Active Mixer in SiGe HBT Technology." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 655-658.

We present the design, novel fabrication techniques, and measurements of a SiGe HBT X-Band active mixer MMIC. By implementing microstrip transmission lines on an inexpensive, low-loss spin-on dielectric above the lossy Si substrate, we use the high-speed SiGe HBTs in "classical" monolithic microwave circuits.

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